

CLAIMS

1. Pressure surface of the type with an elastic sheet and non-conductive holes, with two conductive faces backing onto both sides of said insulating sheet where a
5 certain external pressure deforms it, allowing an electrical conductive contact between the conductive faces within the holes, with a signal being emitted from a group of said holes. Characterised in that: A) the relief on the conductive areas appearing through the holes, or that of a mobile conductive object inside said holes, is sufficient to allow the conductive contact to be produced at one or several levels (above, below or from side
10 areas). B) In some devices the conductive contact is optical or a combination of both, and none in particular is claimed. C) The relief on the face of the stabilising sheet (b) that directly receives the impacts from above, is sufficient to improve the sensory contact of the small objects that may get in between the ball of the foot and the pressure surface. D) The addition of stabilising sheets (always optional), mainly in the upper and
15 lower ends (b) and (b'). E) The presence of a microcomputer or smart circuit with its programs and properties. F) The conductive areas can contain several holes or just one. G) The holes are distributed all over the risk areas which, regarding the ball of the foot, is all over it.

2. According to claim 1. The "sandwich" arrangement or stacking of the pressure
20 surfaces, joining the elastic sheets and the holes, allowing the conductive faces to cover, look towards or cut (f) the holes at the various levels.

3. According to claim 2. Localising the pressure: one point, one line and one surface; measuring the frequencies and more than one pressure level.

4. According to claim 3. The conductive areas of the various levels adapt in size
25 and arrangement to the risk surfaces to be measured, with the conductive system achieving simplicity and maximum discretion with numerous holes (those required) and minimum precise output signals; no particular conductive system is claimed.

5. Surface such as in the described claims. With any shape (the material, the shape and other properties are not claimed).

6. According to the preceding claims the system is capable of detecting and
30 distinguishing any risk pressure, mainly those produced by the body itself towards the skin and by the objects that have got in between the skin and the pressure surface. No relief is claimed or shape of the conductive faces appearing through the holes or of the mobile conductive object located inside the holes, or any particular generators, reading
35 devices, alarm, micro processors, or antennae.